

**Programmatic Access Type:**

Programmatic access type of a user can access the AWS Account using AWS CLI Tools, SDK, API or any other development tools

A programmatic access type of a user will get

- Access Key ID
- Secret Access Key

Programmatic Access type of a User has to use "**Access Key ID**" & "**Secret Access Key**" to login to AWS Account, Instead of UserName & Password

1. Create an IAM user "**user11**" with Programmatic Access type and provide Full Access on the AWS Account
  - a. Create an IAM User without management console access
  - b. Generate a pair of access Keys.
2. Note Down the Access Key & Secret Access Key
  - a. Access Key :
  - b. Secret Access Key :
3. Access the AWS account as "user11" using AWS CLI Tools
  - a. Install AWS CLI Tools ( <https://aws.amazon.com/cli> )
  - b. Configure the AWS CLI tools with the "**user11**" access keys

aws configure

4. Perform some basic actions using AWS CLI as a programmatic access type of a user
  - a. List IAM users available on the AWS Account
  - b. Create a new user "**user12**" using CLI
  - c. Add an IAM User "**user12**" to an existing UserGroup "**EC2Admins**"

***aws iam add-user-to-group --user-name user12 --group-name EC2Admins***

**Note:** We can provide both types of access to the IAM User

5. Provide Management Console Access to the existing Programmatic Access type of user "**user11**"

**Note:** It is not recommended to enable Programmatic access type for the root user.